

139. *PLUVIANUS ÆGYPTIUS* (Linn.).

These beautiful birds were common along the river-bank. They were in pairs and were very noisy when disturbed. Von Heuglin considered that this species bred in the Soudan after the rainy season, but those which we shot were evidently doing so, one female having a fully formed egg in the oviduct. We never saw them near the crocodiles!

140. \**CURSORIUS GALLICUS* Gm.

These birds were fairly common along the river-bank in small parties of from four to eight.

141. \**GLAREOLA PRATINCOLA* (Linn.).

Between Khartum and 30 miles to the south of it several flocks of Pratincoles were seen during the first fortnight in May.

XXIII.—*On the Birds collected by Mr. J. J. Harrison between Zeila and Lakes Rudolf and Baringo, Eastern Africa.* By W. R. OGILVIE GRANT. *With an Introduction by J. J. HARRISON.*

(Plate VII.)

[ON November 5th, 1899, Mr. A. E. Butter, Mr. P. H. Powell-Cotton, Mr. W. F. Whitehouse, and I landed at Aden *en route* for Zeila on the Somali coast. Our hope was to combine sport and survey-work, and if possible to make our way south-westwards by Lake Rudolf to the White Nile and thence to Khartum. We had with us Mr. Donald Clarke, a first-rate practical surveyor, and Mr. Perks as taxidermist. Though my friends were mainly occupied with the pursuit of big game, my thanks are due to them for bringing into camp various birds to add to the collection in which I was interested. While at Zeila I procured, among other birds, a Nightjar (*Caprimulgus unwinii*)—a pale Asiatic form which had not been previously met with in Africa. On leaving the coast, our caravan consisted of about 80 camels and 63 Somalis picked from four different tribes, all under a splendid head-man, Mohamed Hassen.

Directly we started we found out what a terribly hard task lay before us. Two years of unprecedented drought had

not only dried up every stream, but killed half the bush and scrub; so that our poor pack-animals had a bad time of it. Pushing quickly along, we passed Dadab, Hensau, Lasman, and Somadu, and arrived at Aruwini, where we found a little water and collected a few birds. We met with hundreds of Guinea-fowl, and Dik-Diks were also plentiful; while at Hensau hares were so numerous that we carried out a hare-drive. The country was hard to travel over, being mostly formed by volcanic ranges. At Somadu, at an elevation of 3500 feet, it was very cold. Bya Kaboba, our next halt, is the first Abyssinian outpost; and we received a grand salute from the whole garrison, consisting of five men. The whole district here was full of gumbôt-bush, a deadly poison to camels, as we found to our cost.

On our way to Gildessa I secured a fully-adult Bateleur Eagle and a very fine Vulture (*Otogyps auricularis*), measuring 9 feet 2 inches between the tips of the wings and standing 42 inches high.

On arriving at Gildessa itself we found much more bird-life; and our camp was invaded by the lovely dark-blue Starling *Lamprocolius chalybeus*, with a plumage that shone like diamonds in the sunlight. Here we were able to purchase some riding-mules, a merciful relief to our thin and tired ponies.

Passing Garrara, where, on one of the lofty volcanic ranges, I was lucky enough to bag a Larger Kudu and a Lesser Kudu on the same day, we came across quantities of monkeys, all the hills seeming to be full of them. We then moved past Ortha and Ufulla, through a wretched country, reaching the banks of the Herrer on December 5th. In the evening the air was darkened by countless flocks of Sand-Grouse coming to drink, the flight only lasting about fifteen minutes. At this place we found the only uncivil native met with on the trip—an independent but powerful chieftain called Toombaccho. This worthy caused us much trouble, especially by looting some of the grain-camels in the rear of our caravan. On Sunday, December 10th, we reached a pretty little lake called Odah, swarming with all kinds of wild-fowl; and towards evening we tried a drive, sending our

boys along the water's edge to fire their rifles, while we lay hidden in different corners. After a very large expenditure of cartridges, our bag only resulted in a Goose, four Ducks, a Crane, and an Eagle! On the 15th we reached a wonderful hot-water spring called Billen, and on the 19th struck the Hawash River and had our first experience with elephants. We shot ten, half of which had poor ivory; but it was a case of saving our own lives with some difficulty! I do not ever remember tackling a worse lot of elephants, and the dense high bush made matters all the worse. Our men suffered badly in this neighbourhood from scorpion-stings.

The caravan arrived at Tadechamulka, altitude 3024 feet, on December 27th; and here we established a main camp, leaving all our camels and men, while we paid a flying visit to the Emperor Menelik. On our journey up to Addis Abbeba we saw very little bird-life, the weather being bitterly cold and wet, and as we were at an elevation of over 9000 feet, we found it terribly trying at night. On returning to our main camp I found that Perks had collected about fifty specimens of birds, but many were duplicates of those already obtained, and there was nothing rare among them.

A week's hard marching, chiefly along the Hawash Valley, brought us to Gogo, or Buffa Lake, a sheet of water covered with wild-fowl of all sorts, Egyptian Geese being found there in hundreds. Thence we made a side-trip to climb the sacred mountain of Zuquala, over 10,000 feet high. We found Oribi very common there, and added a new Antelope to our bag, viz. the Bohor. On reaching Lake Suai our camels were again badly poisoned through our boys allowing them to feed on the gumbôt. Owing to this neglect, we were not only delayed for a week, but lost many of our best young animals—a heavy loss, and one that we could not repair. Game was very plentiful; enormous herds of Bohor, Hartebeest, and Grant's Gazelle abounded. Working along the chain of lakes we reached and climbed the lofty and fertile hills of Walamo. How lovely the country looked after our weeks of desert and rocky-mountain travel! We saw many gay-plumaged birds, but how often we longed to hear the

song of an English Thrush or Blackbird. The entire absence of singing-birds is most remarkable. Our journey now took us over some lofty ranges, the highest point being attained at Dincha (10,020 feet), an old stockaded Galla town, at present administered by Abyssinian generals, who showed us unbounded hospitality, loading us with presents of every kind. On March 5th we descended to the shores of Lake Margarita (4212 feet), and camped in a charming situation.

We now began to experience the full effects of the awful drought, the whole country being desolate and devoid of natives, while skeletons were strewn in all directions. On the way to Lake Stefanie we obtained the handsome Northern Giraffe, as well as some Ostriches, but our horror may be imagined on finding that Lake Stefanie was perfectly dry. Luckily we experienced some heavy thunderstorms, and were thus enabled to push on to Lake Rudolf. March 29th was a red-letter day, for we not only reached that lake, but Butter killed a pure white Topi antelope, a most perfect albino. It was wonderful luck to secure it out of the thousands of animals congregated along the shores. Pushing on to the Omo River, our hearts sank on finding the mighty stream quite dry, and the bed covered with rich green grass, which had sprung up during the recent heavy showers. This settled the question of our attempting to reach the Nile, as, of course, the Sobat would be equally dry; so after hoisting a boundary-flag near Murle, we sadly turned our faces southwards to begin the long trek of over 500 miles which we had to face before we could strike the Uganda railway. We found birds very scarce, the country all along the eastern shore of the lake being flat and parched; and as the only vegetation consisted of a few stunted bushes, we hardly ever got any shade under which to pitch our tents, while the heat was most oppressive.

On April 21st, after leaving our first camp at the south end of Lake Rudolf, I shot two small Finch-Larks, which proved to be of a new species (*Pyrrhulauda harrisoni*). The ground where I shot them was a mass of rocks, at an elevation of about 1800 feet. On May 11th we emerged on the old trade route to Uganda. It is hard to describe our feelings at being once more on a good road with bridges over all the

bad places, and after 1500 miles of very rough ground, the last day or two to the rail-head seemed as nothing. Our camels were in splendid trim, in fact we travelled from Lake Baringo to the rail-head, a distance of some 110 miles, in four days, doing 37 miles one day. Breaking up our caravan, we took the railway to Mombasa, where we arrived on May 19th. Our total bag came to 381 head, made up of the following:—

Blue and Colobus Monkeys, Lion, Striped and Spotted Hyænas, Jackal, Silver-backed Jackal, Fox, Caracal, Elephant, Rhinoceros, Hippopotamus, Burchell's and Grévy's Zebras, Giraffe, Greater and Lesser Kudus, Oryx, Swayne's Hartbeeste, Eland, Waterbuck, Topi, Waller's, Grant's, Scemmering's, Pelzeln's, Baira, and Thomson's Gazelles, Bohor, Abyssinian Duiker, Oribi, Steinbuck, Pallah, Bushbuck, Klipspringer, Dik-Dik, Galla Ox, Wait Hare, Porcupine, Ant-bear, Ostrich, Crocodile, Iguana, various large Snakes. A new Bat (*Kerivoula harrisoni*, cf. Thomas, P. Z. S. 1901) was procured at Walamo at an elevation of 6700 feet. My collection of birds includes examples of 150 species, represented by nearly 300 skins.—J. J. H.]

*Itinerary of the Expedition in 1899–1900.*

Nov. 9th. Zeila.	Jan. 22nd. Alayu.
„ 15th. Dadab.	„ 27th. Buffa Lake or Gogo.
„ 17th. Hensau.	„ 31st. Gafartha, 5600 ft.
„ 18th. Lasman.	Feb. 4th. Lake Suai.
„ 19th. Somadu, 3500 ft.	„ 9th. Moya or Lake Horori.
„ 21st. Aruwini.	„ 14th. Loko.
„ 24th. Bya Kaboba.	„ 20th. Walamo, 6700 ft.
„ 25th. Gildessa.	„ 25th. Bunga, 5300 ft.
„ 29th. Garrara.	Mar. 4th. Dincha, 10,020 ft.
Dec. 1st. Genoble.	„ 6th. Lake Margarita, 4212 ft.
„ 2nd. Ortha.	„ 10th. Gardula, 5300 ft.
„ 6th. Herrer.	„ 25th. Lake Stefanie, 2350 ft.
„ 7th. Corta.	„ 29th. Lake Rudolf till April
„ 9th. Tullar.	20th, 200 miles N. to S.
„ 11th. Lake Odah.	Apr. 21st. Between Lake Rudolf
„ 15th. Dunkagga, 3770 ft.	and Lake Baringo.
„ 16th. Billen, 3400 ft.	May 12th. Elmolo (Uganda Cara-
„ 20th. Hawash Valley.	van route to Mom-
„ 28th. Tadechamulka, 3024 ft.	basa).

1. *CORVULTUR CRASSIROSTRIS* Rüpp.

*a.* ♂. Loko, 14th February, 1900. (No. 229.)

*b, c.* ♀. Dincha, 10,020 ft., 4th March, 1900. (Nos. 240, 241.)

[Iris black.—J. J. H.]

2. *RHINOCORAX AFFINIS* (Rüpp.).

*a.* ♀. Lasman, 18th Nov., 1899. (No. 20.)

*b.* ♂. Tadechamulka, 3024 ft., 31st Dec., 1899. (No. 141.)

3. *CORONE EDITHÆ* (Phillips).

*a, b.* ♂ ♀. Lake Rudolf, 18th April, 1900. (Nos. 282, 283.)

[Iris black ; eyelids yellow.—J. J. H.]

The occurrence of this Crow at Lake Rudolf extends its known range a long way to the west. It was first met with by Mr. Lort Phillips on the coast of Somaliland in the neighbourhood of Berbera and in the Goolis range. It was subsequently obtained by Mr. Bennett Stanford in the same neighbourhood.

4. *CORVUS SCAPULATUS* Daud.

*a, b.* ♂ ♀. Walamo, 6700 ft., 20th–21st Feb., 1900. (Nos. 233, 234.)

[Iris black.—J. J. H.]

5. *DILOPHUS CARUNCULATUS* (Gmel.).

*a, b.* ♀. Alayu, 25th Jan., 1900. (Nos. 190, 191.)

*c.* ♀. Lake Rudolf. 17th April, 1900. (No. 281.)

[Iris hazel.—J. J. H.]

6. *PHOLIDAUGES LEUCOGASTER* (Gmel.).

*a.* ♂. Bunga, 5300 ft., 25th Feb., 1900. (No. 238.)

*b.* ♂. Lake Margarita, 4212 ft., 8th March, 1900. (No. 245.)

[Iris hazel.—J. J. H.]

7. *LAMPROTORNIS PORPHYROPTERUS* Rüpp.

*a.* ♂. Ortha, 3rd Dec., 1899. (No. 69.)

*b.* ♀. Herrer, 6th Dec., 1899. (No. 71.)

[Iris light yellow.—J. J. H.]

8. *LAMPROCOLIUS CHALYBEUS* Ehr.

*a-c.* ♂ ♀. Gildessa, 27th, 28th Nov., 1899. (Nos. 50, 52, 53.)

*d.* ♂. Hawash Valley, 20th Dec., 1899. (No. 115.)

[Iris light orange.—J. J. H.]

9. *SPREO SUPERBUS* (Rüpp.).

*a, b.* ♀. Aruwini, 21st–22nd Nov., 1899. (Nos. 28, 36.)

*c, d.* ♂. Billen, 3400 ft., 16th Dec., 1899. (Nos. 108, 109.)

*e, f.* ♂. Tadechamulka, 3024 ft., 28th Dec., 1899. (Nos. 131, 132.)

*g, h.* ♂. Tadechamulka, 5th–13th Jan., 1900. (Nos. 155, 174.)

10. *COSMOPSARUS REGIUS* Reichenow.

*a.* ♀. Aruwini, 21st Nov., 1899. (No. 35.)

11. *BUPHAGA ERYTHORHYNCHA* (Stuhl.).

*a.* ♀. Ortha, 2nd Dec., 1899. (No. 66.)

*b.* ♂. Billen, 3400 ft., 19th Dec., 1899. (No. 112.)

*c, d.* ♀. Hawash Valley, 20th Dec., 1899. (Nos. 118, 119.)

*e, f.* ♂ ♀. Tadechamulka, 3024 ft., 29th Dec., 1899. (Nos. 136, 137.)

[Iris yellow; bill bright red; eye-wattles yellow.—J. J. H.]

12. *BUCHANGA ASSIMILIS* (Bechst.).

*a.* ♂. Aruwini, 21st Nov., 1899. (No. 29.)

*b.* ♂. Ortha, 2nd Dec., 1899. (No. 64.)

[Iris light red.—J. J. H.]

13. *ORIOLOUS GALBULA* (Linn.).

*a.* ♀. (Somaliland?)

14. *ORIOLOUS ROLLETI* Salvad.

*a.* ♂. Lake Suai, 6th Feb., 1900. (No. 216.)

*b, c.* ♂. Lake Stefanie, 2350 ft., 27th March, 1900. (No. 256.)

[Iris red.—J. J. H.]

15. *PYROMELANA XANTHOMELÆNA* (Rüpp.).

*a.* ♂. (Somaliland?)

16. *PENTHETRIA EQUES* (Hartl.).  
*a, b.* ♂ ♀. Walamo, 6700 ft., 24th Feb., 1900. (Nos. 236, 237.)
17. *PLOCEIPASSER MELANORHYNCHUS* (Rüpp.).  
*a-c.* ♂ ♀. Gildessa, 27th Nov., 1899. (Nos. 48, 49, 51.)  
*d.* ♂. Hawash Valley, 20th Dec., 1899. (No. 117.)  
*e, f.* ♀. Tadechamulka, 3024 ft., 6th Jan., 1900. (Nos. 156, 157.)
18. *LAGONOSTICTA BRUNNEICEPS* Sharpc.  
*a.* ♀. Hawash Valley, 26th Dec., 1899. (No. 124.)
19. *ESTRILDA PHENICOTIS* Swains.  
*a.* ♂. Tadechamulka, 3024 ft., 30th Dec., 1899. (No. 138.)
20. *ESTRILDA NIGRIMENTUM* Salvad.  
*a.* ♀. Tadechamulka, 3024 ft., 9th Jan., 1900. (No. 162.)  
 [Iris bright brown.—J. J. H.]  
 The black on the chin is scarcely noticeable, only a few small feathers in the angle being of that colour.
21. *ANAPLECTES MELANOTIS* (Lafr.).  
*a.* ♂. Lake Margarita, 4212 ft., 6th March, 1900. (No. 242.)  
 [Iris hazel.—J. J. H.]  
 Apparently a very old male of this species in the most brilliant plumage; the feathers of the mantle brownish black mixed with red, and the chest as well as the upper breast pure scarlet.
22. *HYPHANTORNIS GALBULA* (Rüpp.).  
*a.* ♂. Hensau, 17th Nov., 1899. (No. 18.)  
*b.* ♂. Tadechamulka, 3024 ft., 9th Jan., 1900. (No. 161.)
23. *HYPHANTORNIS ABYSSINICUS* (Gmel.).  
*a.* ♂. Tadechamulka, 3024 ft., 9th Jan., 1900. (No. 163.)
24. *HYPHANTORNIS VITELLINUS* (Licht.).  
*a.* ♂ ♀. (Somaliland?)



25. *TEXTOR INTERMEDIUS* Cab.

a. ♂. Dunkagga, 3770 ft., 14th Dec., 1899. (No. 101.)

b. ♂. Tadechamulka, 3024 ft., 7th Jan., 1900. (No. 159.)

26. *DINEMELLIA DINEMELLI* (Rüpp.).

a. ♂. Gildessa, 25th Nov., 1899. (No. 43.)

b. ♂. Billen, 3400 ft., 19th Nov., 1899. (No. 113.)

27. *PASSER SWAINSONI* (Rüpp.).

a-d. ♂ ♀. Tadechamulka, 3024 ft., 3rd-4th Jan., 1900. (Nos. 148-151.)

28. *PYRRHULAUDA MELANAUCHEN* (Cab.).

a. ♂. Zeila, 13th Nov., 1899. (No. 10.)

29. *PYRRHULAUDA HARRISONI*. (Plate VII.)

*Pyrrhulauda harrisoni*, Grant, Bull. B. O. C. xi. p. 30 (1900).

a, b. ♂ ♀. South end of Lake Rudolf, 1800 ft., 21st April, 1900. (Nos. 289, 290.) [*Types of the species.*]

*Adult male.* Most nearly allied to *P. verticalis* (Smith), but altogether paler; the black of the crown, lores, fore part of cheeks, throat, sides and front of the neck, as well as the middle of the chest, being replaced by deep chestnut; the middle of the breast and belly, as well as a patch between the back of the neck and upper mantle, black; the sides of the chest, breast, and flanks white; general colour above pale earthy brown; the interscapular region, as well as the lower back and rump, uniform. Total length 4·8 inches, wing 3, tail 1·8, tarsus 0·65.

*Adult female.* Above dark earthy brown, and apparently very similar to the female of *P. verticalis*. A dusky patch covers the greater part of the cheeks and ear-coverts, and the middle of the breast and belly are mostly black; the throat, fore-neck, and chest are mottled brownish white tinged with sandy; the sides and flanks darker. Total length 4·75 inches, wing 2·9, tail 1·8, tarsus 0·65.

Most interesting, perhaps, of all the species of which examples were procured is this beautiful new form of Finch-Lark from Lake Rudolf, figured in the accompanying



G. E. Lodge del. et lith.

PYRRHULAUDA HARRISONI

Mintern Bros. imp.

Plate. Mr. Harrison has very kindly presented the types of this fine species and other desirable birds to the British Museum.

30. *ALÆMON DESERTORUM* (Staul.).

*a.* ♀. Zeila, 13th Nov., 1899. (No. 12.)

31. *CINNYRIS OSIRIS* (Finsch).

*a.* ♂. (Somaliland.)

32. *CINNYRIS HABESSINICA* (Hempr. & Ehr.).

*a-d.* ♂ ♀. Tadechamulka, 3024 ft., 2nd-9th Jan., 1900.  
(Nos. 144, 154, 160, 161.)

33. *DRYOSOPUS ÆTHIOPICUS* (Gmel.).

*a.* ♂. Tadechamulka, 3024 ft., 29th Dec., 1899. (No. 135.)

34. *DRYOSOPUS FUNEBRIS* Hartl.

*a.* ♂. Gardula, 5300 ft., 12th March, 1900. (No. 251.)  
[Iris black.—J. J. H.]

35. *LANIARIUS CRUENTUS* (Hempr. & Ehr.).

*a.* ♀. Lasman, 17th Nov., 1899. (No. 19.)

*b.* ♂. Aruwini, 22nd Nov., 1899. (No. 37.)

36. *LANIARIUS SULPHUREIPECTUS* (Less.).

*a.* ♂. Lake Stefanie, 2350 ft., 27th March, 1900. (No. 257.)

[Iris hazel.—J. J. H.]

37. *LANIUS EXCUBITORIUS* Des Murs.

*a, b.* ♀. Gardula, 5300 ft., 10th March, 1900. (Nos. 248, 249.)

[Iris hazel.—J. J. H.]

38. *LANIUS MINOR* Gmel.

*a.* ♂. Lake Rudolf, 14th April, 1900. (No. 286.)

[Iris hazel.—J. J. H.]

39. *LANIUS ANTINORI* Salvad.

*a.* ♀. Dadab, 15th Nov., 1899. (No. 14.)

40. *LANIUS COLLURIO* Linn.

*a.* ♀ imm. Lake Rudolf, 9th April, 1900. (No. 273.)

41. *LANIUS NUBICUS* Licht.

a. ♀. Dunkagga, 3770 ft., 15th Dec., 1899. (No. 104.)

42. *PRIONOPS POLIOCEPHALUS* (Stanley).

a. ♂. Lake Stefanie, 2300 ft., 27th March, 1900. (No. 258.)

[Iris hazel; eye-wattles yellow.—J. J. H.]

43. *EUROCEPHALUS RUEPELLI* Bonap.

a. ♀. Dunkagga, 3770 ft., 15th Dec., 1899. (No. 103.)

b. ♂. Gardula, 5300 ft., 13th March, 1900. (No. 252.)

[Iris black.—J. J. H.]

44. *MONTICOLA SAXATILIS* (Linn.).

a. ♀. Herrer, 6th Dec., 1899. (No. 73.)

[Iris brown.—J. J. H.]

45. *SAXICOLA ISABELLINA* Cretzschm.

a. ♀. Dadab, 15th Nov., 1899. (No. 15.)

46. *CRATEROPUS SMITHI* Sharpe.

a. ♀. Alaya, 22nd Jan., 1900. (No. 186.)

47. *CAMPOPHAGA PHENICEA* (Lath.).

a. ♂. Gardula, 5300 ft., 10th March, 1900. (No. 250.)

48. *TERPSIPHONE CRISTATA* (Gmel.).

a. ♀. Lake Stefanie, 2350 ft., 25th March, 1900. (No. 255.)

49. *CAMPOTHERA NUBICA* (Gmel.).

a. ♂ (wrongly marked ♀). Ortha, 2nd Dec., 1900. (No. 167.)

b. ♀. Gardula, 5300 ft., 10th March, 1900. (No. 247.)

50. *DENDROPICUS HEMPRICHI* (Ehr.).

a, b. ♀ ad. sk. Gildessa, 25th to 27th Nov., 1899. (Nos. 44 & 51.)

51. *THIRIPIAS SCHOENSIS* (Rüpp.).

a. ♀. Gildessa, 29th Nov., 1899. (No. 54.)

b. ♀. Garrara, 29th Nov., 1899. (No. 60.)

c. ♂. Herrer, 6th Dec., 1899. (No. 74.)

d. ♂. Tadechamulka, 3024 ft., 13th Dec., 1899. (No. 139.)

[Iris brown.—J. J. H.]

52. *INDICATOR MAJOR* Steph.

*a.* ♂. Lake Rudolf, 31st March, 1900. (No. 263.)

[Iris hazel.—J. J. H.]

53. *MELANOBUCCO ABYSSINICUS* (Lath.).

*a, b.* ♀. Lake Margarita, 6th March, 1900. (Nos. 243, 244.)

[Iris hazel.—J. J. H.]

54. *TRICHOLEMA DIADEMATA* (Heugl.).

*a.* ♂. Tadechamulka, 3024 ft., 5th Jan., 1900. (No. 152.)

The specimen before us is exactly similar in plumage to birds collected at Lado by Emin Pasha. The occurrence in eastern Shoa indicates an extension of its range to the north-east.

55. *TRACHYPHONUS MARGARITATUS* (Rüpp.).

*a.* ♀. Ortha, 3rd Dec., 1899. (No. 68.)

[Iris hazel.—J. J. H.]

56. *SCHIZORHIS LEUCOGASTER* (Rüpp.).

*a.* ♂. Somadu, 19th Nov., 1899. (No. 24.)

*b.* ♂. Gildessa, 27th Nov., 1899. (No. 47.)

57. *GYMNOSCHIZORHIS PERSONATA* (Rüpp.).

*a.* ♀. Loko, 14th Feb., 1900. (No. 227.)

[Iris hazel.—J. J. H.]

57 A. *CUCULUS CANORUS*.

*a.* Adult. (Somaliland?)

58. *CENTROPUS SUPERCILIOSUS* (Hempr. & Ehr.).

*a.* ♀. Garrara, 29th Nov., 1899. (No. 58.)

*b.* ♂. Gildessa, 1st Dec., 1899. (No. 63.)

59. *COLIUS LEUCOTIS* (Rüpp.).

*a.* ♂. Tullar, 9th Dec., 1899. (No. 88.)

60. *COLIUS MACRURUS* (Linn.).

*a, b.* ♂ ♀. Hawash Valley, 20th–21st Dec., 1899. (Nos. 116, 120.)

[Iris hazel.—J. J. H.]

61. *CAPRIMULGUS UNWINI* Hume.

*a.* ♀. Zeila, 11th Nov., 1899. (No. 9.)

This pale form of the common Goatsucker has not previously been recorded from Africa. Its range was known to extend from the River Oxus to Central Asia and N.W. India.

62. *SCOTORNIS CLIMACURUS* (Vieill.).

*a.* ♀ imm. Lake Rudolf, 12th April, 1900. (No. 274.)

63. *MELITTOPHAGUS SHARPII* Hartert.

*a.* ♂. Somadu, 19th Nov., 1899. (No. 22.)

*b.* ♂. Billen, 19th Dec., 1899. (No. 114.)

*c.* ♂. Tadechamulka, 3024 ft., 13th Jan., 1900. (No. 175.)

64. *MEROPS NUBICUS* Gmel.

*a.* ♂. Lake Odah, 10th Dec., 1899. (No. 90.)

*b, c.* ♂ ♀. Gafartha, 5600 ft., 31st Jan., 1900. (Nos. 205, 206.)

*d-f.* ♂. Lake Rudolf, 29th March to 2nd April, 1900. (Nos. 261, 264, 265.)

[Iris red.—J. J. H.]

65. *UPUPA EPOPS* Linn.

*a-d.* ♂ ♀. Tadechamulka, 3024 ft., 28th Dec., 1899, to 12th Jan., 1900. (Nos. 133, 165, 171, 172.)

*e.* ♂. Lake Suai, 4th Feb., 1900. (No. 214.)

66. *IRRISOR ERYTHRORHYNCHUS* (Lath.).

*a.* ♂. Bya Kaboba, 24th Nov., 1899. (No. 40.)

*b.* ♂. Gildessa, 25th Nov., 1899. (No. 41.)

*c.* ♂ imm. Tadechamulka, 3024 ft., 3rd Jan., 1900. (No. 147.)

67. *RHINOPOMASTUS MINOR* (Rüpp.).

*a.* ♂. Bya Kaboba, 24th Nov., 1899. (No. 38.)

*b.* ♂. Dunkagga, 3770 ft., 14th Dec., 1899. (No. 102.)

[Iris brown.—J. J. H.]

68. *BUCORAX ABYSSINICUS* (Bodd.).

*a.* ♂. Buffa Lake (Gogo), 28th Jan., 1900. (No. 198.)

- b.* ♀ imm. Lake Suai, 8th Feb., 1900. (No. 220.)  
[Iris hazel; gular pouch dark blue.—J. J. H.]
69. *LOPHOCEROS NASUTUS* (Linn.).  
*a.* ♂. Lake Odah, 13th Dec., 1899. (No. 100.)
70. *LOPHOCEROS ERYTHORHYNCHUS* (Temm.).  
*a.* ♂. Hawash Valley, 26th Dec., 1899. (No. 125.)
71. *LOPHOCEROS FLAVIROSTRIS* (Rüpp.).  
*a-c.* ♀. Aruwini, 21st Nov., 1900. (Nos. 30, 31, 32.)
72. *BYCANISTES CRISTATUS* (Rüpp.).  
*a.* ♀. Bunga, 5300 ft., 25th Feb., 1900. (No. 239.)  
[Iris hazel.—J. J. H.]
73. *HAPALODERMA NARINA* (Steph.).  
*a.* ♀. Herier, 6th Dec., 1899. (No. 76.)  
[Iris brown.—J. J. H.]
74. *CERYLE MAXIMA* (Pall.).  
*a, b.* ♂ ♀. Hawash Valley, 26th–28th Dec., 1899. (Nos. 128, 130.)  
*c.* ♀. Tadechamulka, 3024 ft., 14th Jan., 1900. (No. 179.)
75. *CORYTHORNIS CYANOSTIGMA* (Rüpp.).  
*a.* ♂. Tadechamulka, 3024 ft., 11th Jan., 1900. (No. 169.)
76. *HALCYON SEMICERULEA* (Forskål).  
*a.* ♂. Tadechamulka, 3024 ft., 11th Jan., 1900. (No. 170.)
77. *HALCYON CHELICUTENSIS* (Stanley).  
*a.* ♂. Garrara, 29th Nov., 1899. (No. 59.)  
*b.* ♀. Hawash Valley, 21st Dec., 1899. (No. 121.)  
*c, d.* ♀. Tadechamulka, 3024 ft., 10th–14th Jan., 1900. (Nos. 167, 177.)
78. *CORACIAS ABYSSINICUS* Bodd.  
*a, b.* ♂. Hawash Valley, 22nd & 26th Dec., 1899. (Nos. 122, 126.)  
*c, d.* ♂ ♀. Tadechamulka, 3024 ft., 2nd & 14th Jan., 1900. (Nos. 145, 178.)

79. *CORACIAS NÆVIUS* Daud.

*a.* ♂. Tadechamulka, 3024 ft., 12th Jan., 1900. (No. 173.)

*b.* ♂. Loko, 14th Feb., 1900. (No. 228.)

*c.* ♀. Walamo, 24th Feb., 1900. (No. 235.)

[Iris hazel.—J. J. H.]

80. *PŒOCEPHALUS RUFIVENTRIS* (Rüpp.).

*a, b.* ♂ ♀. Somadu, 21st Nov., 1899. (Nos. 26, 27.)

*c, d.* ♂ ♀. Gildessa, 28th & 29th Nov., 1899. (Nos. 52 & 61.)

*e.* ♂. Tadechamulka, 3024 ft., 21st Jan., 1900. (No. 185.)

81. *AGAPORNIS TARANTÆ* (Stanl.).

*a-c.* ♂. Lake Suai, 1st–5th Feb., 1900. (Nos. 209, 210, 215.)

82. *BUBO LACTEUS* (Temm.).

*a.* ♂. Lake Suai, 8th Feb., 1900. (No. 219.)

[Iris dark hazel.—J. J. H.]

83. *GLAUCIDIUM PERLATUM* (Vieill.).

*a.* ♀. Tadechamulka, 3024 ft., 2nd Jan., 1900. (No. 146.)

84. *CARINE SPILOGASTRA* (Heugl.).

*a.* ♀. Aruwini, 21st Nov., 1899. (No. 33.)

85. *OTOGYPS AURICULARIS* (Daud.).

*a.* Adult. Gildessa, 25th Nov., 1899.

A very fine example of this Vulture.

[Height 42 inches, expanse between the tips of the wings 110 inches.—J. J. H.]

86. *NEOPHRON PERCNOPTERUS* (Linn.).

*a.* Immature. Somadu, 19th Nov., 1899. (No. 23.)

87. *NEOPHRON MONACHUS* (Temm.).

*a.* ♂. Tullar, 9th Dec., 1899. (No. 89.)

88. *CIRCUS ÆRUGINOSUS* (Linn.).

*a.* ♂. Buffa Lake, 28th Jan., 1900. (No. 196.)

Examples of this Harrier are very rarely seen in collections from North-east Africa.



## 89. MELIERAX POLYZONUS (Rüpp.).

*a.* ♀. Gildessa, 11th Dec., 1899. (No. 97.)

*b.* ♂ imm. Tadechamulka, 3024 ft., 21st Jan., 1900.  
(No. 184.)

[Adult female, iris hazel.—J. J. H.]

## 89A. MELIERAX NIGER (Vieill.).

*a.* ♂. Gafartha, 5600 ft., 30th Jan., 1900. (No. 204.)

## 90. BUTEO AUGUR (Rüpp.).

*a, b.* ♂. Buffa Lake (Gogo), 28th–29th Jan., 1900.  
(Nos. 195, 200.)

*c.* ♀. Gafartha, 31st Jan., 1900. (No. 208.)

[Iris dark hazel.—J. J. H.]

## 91. MILVUS ÆGYPTIUS (Gmel.).

*a.* ♂. Ortha, 2nd Dec., 1899. (No. 70.)

## 92. AQUILA ALBICANS Rüpp.

*a.* ♂ in 4th year's plumage. Gildessa, 29th Nov., 1899.  
(No. 62.)

*b.* ♂ in 2nd year's plumage. Herrer, 6th Dec., 1899.  
(No. 77.)

*c.* ♂ in 3rd year's plumage. Tadechamulka, 3024 ft.,  
29th Dec., 1899. (No. 134.)

*d.* ♂ in 1st year's plumage. Gafartha, 5600 ft., 30th Jan.,  
1900. (No. 203.)

A full account of this most interesting series has been prepared by Dr. Suschkin, and will appear in the *Nouv. Mém. Soc. Nat. Moscou*.

## 93. LOPHAËTUS OCCIPITALIS (Burch.).

*a.* ♀. Buffa Lake (Gogo), 25th Jan., 1900. (No. 189.)

*b.* ♂ vix ad. Walamo, 6700 ft., 20th Feb., 1900. (No.  
232.)

[Iris bright yellow.—J. J. H.]

## 94. HALIAËTUS VOCIFER (Daud.).

*a, b.* ♀. Tadechamulka, 3024 ft., 6th Jan., 1900. (No.  
158 & no number.)

[Iris dark hazel.—J. J. H.]

95. *HELOTARSUS ECAUDATUS* (Daud.).

a. ♀. Gildessa, 25th Nov., 1899. (No. 45.)

A fine adult specimen with the feathers of the mantle, back, rump, and upper tail-coverts much worn, and faded to a pale rufous buff. In this plumage the species has been called by Rüppell and others *H. leuconotus*.

96. *POLIOHIERAX SEMITORQUATUS* (Smith).

a. ♂. Tadechamulka, 3024 ft., 10th Jan., 1900. (No. 166.)

b. ♀. Alayu, 23rd Jan., 1900. (No. 187.)

97. *CERCHNEIS TINNUNCULUS* (Linn.).

a. ♂. Tadechamulka, 3024 ft., 21st Jan., 1900. (No. 183.)

97 A. *CERCHNEIS NAUMANNI* Fleisch.

a, b. ♂ ♀. Between Lakes Rudolf and Baringo, 21st April, 1900. (Nos. 291, 292.)

98. *FALCO TANYPTERUS* Schleg.

a. ♀. Lake Rudolf, 17th April, 1900. (No. 279.)

[Iris black.—J. J. H.]

99. *PLECTROPTERUS RUEPPELLI* Sclat.

a. ♂. Buffa Lake (Gogo), 29th Jan., 1900. (No. 199.)

The British Museum previously possessed only one mounted example of this rare Goose.

100. *CHENALOPEX AEGYPTIACA* (Linn.).

a. ♂. Lake Odah, 11th Dec., 1899. (No. 95.)

b. ♀. Tadechamulka, 3024 ft., 15th Jan., 1900. (No. 180.)

c. ♂. Buffa Lake (Gogo), 26th Jan., 1900. (No. 192.)

101. *DENDROCYCNA VIDUATA* (Linn.).

a. ♀. Lake Rudolf, 4th April, 1900. (No. 268.)

102. *DENDROCYCNA FULVA* (Gmel.).

a. ♂. Lake Rudolf, 20th April, 1900. (No. 287.)

103. *NETTION PUNCTATUM* (Burch.).

a. ♀. Lake Odah, 10th Dec., 1899. (No. 91.)

[Iris grey.—J. J. H.]

## 104. SPATULA CLYPEATA (Linn.).

*a.* [♂ imm.] Lake Odah. 11th Dec., 1899. (No. 94.)

## 105. SCOPUS UMBRETTA (Gmel.).

*a.* ♂. Lake Odah, 15th Dec., 1899. (No. 93.)

*b.* ♀. Tadechamulka, 3024 ft., 10th Jan., 1900. (No. 168.)

## 106. ABDIMIA ABDIMII (Licht.).

*a, b.* ♂ ♀. Moya (Lake Horori), 10th–12th Feb., 1900. (Nos. 224, 225.)

*c.* ♀. Walamo, 6700 ft., 20th Feb., 1900. (No. 230.)  
[Iris: *a, b.* yellow; *c.* hazel.—J. J. H.]

## 107. PSEUDOTANTALUS IBIS (Linn.).

*a.* ♀ imm. Gardula, 5300 ft., 14th March, 1900. (No. 253.)

[Iris light hazel.—J. J. H.]

## 108. IBIS ÆTHIOPICA (Lath.).

*a.* ♂. Lake Odah, 10th Dec., 1899. (No. 92.)

*b.* ♂. Gafartha, 5600 ft., 31st Jan., 1900. (No. 207.)

*c.* ♂. Gardula, 5300 ft., 20th March, 1900. (No. 254.)  
[Iris: *a.* grey; *b.* black; *c.* light hazel.—J. J. H.]

## 109. PLATALEA ALBA Scop.

*a.* ♂. Moya (Lake Horori), 9th Feb., 1900. (No. 222.)

[Narrow iris white; naked skin round eye red; base and margin of culmen mauve; legs magenta!—J. J. H.]

## 110. MESOPHOYX BRACHYRHYNCHA (Brehm).

*a.* ♂. Tadechamulka, 3024 ft., 19th Jan., 1900. (No. 182.)

An interesting specimen in the fullest breeding-plumage; the bare part of the tibia is *black*, with some yellow on the inner side only of the upper portion; this is specially marked on the right leg.

## 111. BUBULCUS IBIS Bp.

*a.* ♂. Moya (Lake Horori), 9th Feb., 1900. (No. 221.)

[Iris yellow.—J. J. H.]

112. *LEPTERODIUS GULARIS* (Bosc).

*a.* ♀. Zeila, 10th Nov., 1899. (No. 7.)

A pure white example in full breeding-plumage.

113. *BUTORIDES ATRICAPILLA* (Afzelius).

*a.* ♀. Tadechamulka, 3024 ft., 16th Jan., 1900. (No. 181.)

114. *BUGERANUS CARUNCULATUS* (Gmel.).

*a.* ♀. Moya (Lake Horori), 9th Feb., 1900. (No. 223.)

[Iris orange.—J. J. H.]

Dr. Sharpe, speaking of this form (B. M. C. B. xxiii. p. 268), says "Rüppell's statement that this species is found in Shoa needs confirmation." Moya is situated immediately south of Shoa.

115. *GRUS GRUS* (Linn.).

*a, b.* ♀. Buffa Lake (Gogo), 27th Jan., 1900. (Nos. 193, 194.)

116. *TRACHELOTIS CANICOLLIS* (Reichenow).

*a.* ♀. Gildessa, 7th Dec., 1899. (No. 83.)

*b.* ♂. Tullar, 9th Dec., 1899. (No. 87.)

[Iris hazel.—J. J. H.]

117. *NEOTIS HEUGLINI* (Hartl.).

*a, b.* Ad. (Somaliland.)

118. *EUPODOTIS KORI* (Burch.).

*a.* ♀. Moya (Lake Horori), 12th Feb., 1900. (No. 226.)

[Iris hazel.—J. J. H.]

119. *ÆDICNEMUS SENEGALENSIS* Swains.

*a, b.* ♂ ♀. Lake Rudolf, 14th April, 1900. (Nos. 277, 285.)

Both examples are in very worn plumage.

120. *GLAREOLA PRATICOLA* (Linn.).

*a.* ♂. Lake Rudolf, 20th April, 1900. (No. 288.)

121. *RHINOPTILUS HARTINGI* Sharpe.

*a.* ♀. Plains near Zeila, 13th Nov., 1899. (No. 11.)

*b.* ♀. Herrer, 6th Dec., 1899. (No. 75.)

*a.* wing 5·2 inches, tarsus 1·85; *b.* wing 5·3, tarsus 1·9.

These examples apparently belong to this species, but approach *R. bisignatus* Hartl. in the more rufous tint of the upper parts.

122. *PHYLLOPEZUS AFRICANUS* (Gmel.).

*a.* ♂ imm. Hawash Valley, 26th Dec., 1899. (No. 129.)

*b.* Ad. Buffa Lake (Gogo), 28th Jan., 1900. (No. 197.)

*c.* ♀ imm. Lake Rudolf, 3rd April, 1900. (No. 266.)

[Iris red.—J. J. H.]

123. *STEPHANIBYX CORONATUS* (Bodd.).

*a.* ♂. Gildessa, 2nd Dec., 1899. (No. 64.)

*b.* ♀. Herrer, 6th Dec., 1899. (No. 72.)

[Iris light red.—J. J. H.]

124. *SARCIOPHORUS TECTUS* (Bodd.).

*a.* ♂. Ortha, 2nd Dec., 1899. (No. 65.)

*b.* ♂. Gildessa, 7th Dec., 1899. (No. 84.)

[Iris golden.—J. J. H.]

125. *HOPLOPTERUS SPINOSUS* (Linn.).

*a-d.* ♂ ♀. Lake Rudolf, 13th–18th April, 1900. (Nos. 276, 278, 280, 284.)

[Iris red.—J. J. H.]

126. *TOTANUS CANESCENS* (Gm.).

*a.* ♀. Zeila, 9th Nov., 1899. (No. 1.)

127. *TRINGA MINUTA* Leisl.

*a.* ♂. Lake Rudolf, 4th April, 1900. (No. 267.)

[Iris grey.—J. J. H.]

128. *ÆGIALITIS ALEXANDRINA* (Linn.).

*a.* ♂. Zeila, 10th Nov., 1899. (No. 5.)

129. *RHYNCHOPS FLAVIROSTRIS* Vieill.

*a, b.* ♂. Lake Rudolf, 5th April, 1900. (Nos. 269, 270.)

[Iris hazel.—J. J. H.]

130. *GELOCHELIDON ANGLICA* (Mont.).

*a.* ♀. Zeila, 10th Nov., 1899. (No. 6.)

131. *LARUS CIRRHOCEPHALUS* (Vieill.).

*a.* ♂. Lake Rudolf, 13th April, 1900. (No. 275.)

[Iris light yellow.—J. J. H.]

132. *LARUS HEMPRICHI* (Bruch).

*a, b.* ♂ ad. et imm. Zeila, 9th Nov., 1899. (Nos. 2, 3.)

133. *FULICA CRISTATA* Gmel.

*a.* ♀. Garrara, 29th Nov., 1899. (No. 57.)

134. *VINAGO WAALIA* (Gmel.).

*a.* ♂. Lake Margarita, 4212 ft., 8th March, 1900. (No. 246.)

135. *COLUMBA GUINEA* (Linn.).

*a, b.* ♂ ♀. Garrara, 29th Nov., 1899. (Nos. 55, 56.)

*c.* ♂ imm. Tadechamulka, 3024 ft., 30th Dec., 1899. (No. 140.)

136. *TURTUR SEMITORQUATUS* (Rüpp.).

*a.* ♀. Alayu, 23rd Jan., 1900. (No. 188.)

137. *TURTUR AMBIGUUS* Bocage.

*a, b.* ♂ ♀. Tadechamulka, 3024 ft., Jan. 2nd, 1900. (Nos. 142, 143.)

138. *ŒNA CAPENSIS* (Linn.).

*a.* ♂. Dunkagga, 3770 ft., 15th Dec., 1899. (No. 105.)

*b.* ♂. Billen, 3400 ft., 16th Dec., 1899. (No. 106.)

*c.* ♀. Hawash Valley, 22nd Dec., 1899. (No. 123.)

139. *CHALCOPELIA AFRA* (Linn.).

*a.* ♂. Aruwini, 21st Nov., 1899. (No. 34.)

140. *PTEROCLES LICHTENSTEINI* Temm.

*a, b.* ♂. Herrer, 6th Dec., 1899. (Nos. 79, 80.)

*c, d.* ♀. Gildessa, 6th Dec., 1899. (Nos. 81, 82.)

*e-g.* ♂ ♀. Billen, 3400 ft., 16th-19th Dec., 1899. (Nos. 106, 110, 111.)

[Iris dark orange or hazel.—J. J. II.]

141. *PTEROCLELUS EXUSTUS* (Temm.).

*a, b.* ♂ ♀. Lake Odah, 13th Dec., 1899. (Nos. 98, 99.)

*c, d.* ♂ ♀. Lake Rudolf, 7th April, 1900. (Nos. 271, 272.)

After reading Mr. Hartert's remarks (Nov. Zool. viii. p. 28, 1900) on the supposed subspecies of this Sand-Grouse, I have carefully re-examined the series in the Museum. Mr. Hartert recognises three subspecies: *P. exustus*,

from West and North-East Africa; *P. e. somalicus*, from the deserts of Somaliland; and *P. e. orientalis*, from India. The two males obtained by Mr. Harrison evidently belong to what Mr. Hartert calls *P. exustus somalicus*, and agree exactly in colour and size with Indian specimens. On the other hand, a male procured by Mr. Gillett, also in Somaliland, has the brighter plumage of *P. exustus exustus* Hartert! This, the typical form, is said to be larger than the Somaliland bird; but the Museum specimens do not show such to be the case, and I cannot see any reason to allow more than one name, *P. exustus*, for the species.

142. *PTERNISTES INFUSCATUS* Cab.

*a, b.* ♂ ♀. Dadab, 15th Nov., 1899. (Nos. 16, 17.)

143. *FRANCOLINUS SHARPI* Grant.

*a, b.* ♂ ♀. Gafartha, 5600 ft., 30th Jan., 1900. (Nos. 201, 202.)

*c, d.* ♂ ♀. Lake Suai, 7th Jan., 1900. (Nos. 217, 218.)  
[Iris hazel.—J. J. H.]

144. *FRANCOLINUS GRANTI* Hartl.

*a.* ♀. Somadu, 19th Nov., 1899. (No. 23.)

*b.* ♂. Bya Kaboba, 24th Nov., 1899. (No. 39.)

*c, d.* ♂ ♀. Lake Suai, 4th–6th Feb., 1900.

The pair of birds from Lake Suai have the dark chestnut spots confined to the feathers of the fore-neck and upper part of the chest, and appear to be very old.

145. *COTURNIX COTURNIX* (Linn.).

*a.* ♀. Walamo, 6700 ft., 20th Feb., 1900. (No. 231.)

146. *NUMIDA PTILORHYNCHA* Licht.

*a, b.* ♂ ♀. Tullar, 9th Dec., 1899. (Nos. 85, 86.)

*c.* ♀. Lake Suai, 1st Feb., 1900.

147. *ACRYLLIUM VULTURINUM* (Hardw.).

*a, b.* ♂. Lake Stefanie, 2350 ft., 28th–29th March, 1900. (Nos. 259, 260.)

[Iris red.—J. J. H.]

148. *STRUTHIO MOLYBDOPHANES* Reichen.

*a-c.* ♂ ♀ (head and neck only). Elmolo, 12th May, 1900. (Nos. 299–301.)